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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/085,910
Filing Date	February 28, 2002
First Named Inventor	Tommi Auranen
Art Unit	2683
Examiner Name	Marcos L. Torres
Attorney Docket Number	004770.00039

### ENCLOSURES (check all that apply)

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment / Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/<br>Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts<br>under 37 CFR1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a<br>Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board<br>of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC<br>(Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s)<br>(please identify below): |
|---|--|---|

### Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm

Banner & Witcoff, LTD.

Signature

Printed Name

Ross A. Dannenberg

Date

March 28, 2005

Reg.  
No.

49,024

### CERTIFICATE OF TRANSMISSION/MAILING

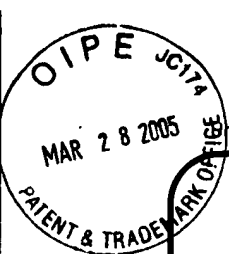
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature

Typed or printed name

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

## FEE TRANSMITTAL for FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

### Complete if Known

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First Named Inventor	Tommi Auranen
Examiner Name	Marcos L. Torres
Art Unit	2683
Attorney Docket No.	004770.00039

### METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 19-0733 Deposit Account Name: Banner & Witcoff, LTD.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments

Under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

### FEE CALCULATION

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

#### 2. EXCESS CLAIM FEES

##### Fee Description

Each claim over 20 (including Reissues)

Fee (\$)

50

Each independent claim over 30 (including Reissues)

200

Multiple dependent claims

360

##### Total Claims

##### Extra Claims

##### Fee(\$)

##### Fee Paid (\$)

\_\_\_\_\_ -20 or HP= \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of total claims paid for, if greater than 20.

##### Indep. Claims

##### Extra Claims

##### Fee(\$)

##### Fee Paid (\$)

\_\_\_\_\_ - 3 or HP= \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

##### Small Entity

Fee (\$)

25

100

180

##### Multiple Dependent Claims

##### Fee (\$)

##### Fee Paid (\$)

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____ / 50 = _____ (round up to a whole number) x	_____	_____

#### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge) : Information Disclosure Fee under 37 C.F.R. 1.17

##### Fees Paid (\$)

180

### SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	49,024	Telephone	(202) 824-3000
Name (Print/Type)	Ross A. Dannenberg	Date	March 28, 2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Tommi Auranen et al.

Serial No.: 10/085,910

Filed: February 28, 2002

For: System And Method For  
Interrupt-Free Hand-Over In A  
Mobile Terminal

Group Art Unit: 2683

Examiner: Marcos L. Torres

Atty. Dkt. No. 004770.00039

**INFORMATION DISCLOSURE STATEMENT**

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

In accordance with 37 C.F.R. § 1.56 and 1.97, Applicant(s) provides the following for consideration by the Office during examination of the above-captioned application. This submission is not intended as an admission that any submitted document or reference constitutes prior art against the claims of the present application. Applicant(s) do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicant(s) hereby make the following statements, if checked:


- ☒ Enclosed is a PTO Form PTO/SB/08a listing art for consideration by the Examiner, and a copy of each of the identified documents is included if presently required by Office rules and regulations.
- ☐ Pursuant to 37 C.F.R. § 1.97 (b) (1), the undersigned states that the present information disclosure statement is being filed within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53 (d).

- ☐ Pursuant to 37 C.F.R. § 1.97 (b) (2), the undersigned states that the present information disclosure statement is being filed within three months of the date of entry of a national stage as set forth in 37 C.F.R. § 1.491 in an international application.
- ☐ Pursuant to 37 C.F.R. § 1.97 (b) (3), the undersigned states that the present information disclosure statement is being filed before the mailing of a first Office action.
- ☐ Pursuant to 37 C.F.R. § 1.97 (b) (4), the undersigned states that the present information disclosure statement is being filed before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.
- ☐ Pursuant to 37 C.F.R. § 1.97 (e) (1), the undersigned states that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- ☐ Pursuant to 37 C.F.R. § 1.97 (e) (2), the undersigned states that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned, upon reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.
- ☐ Pursuant to 37 C.F.R. § 1.704 (d), the undersigned states that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and that the communication was not received by any individual designated in § 1.56 (c) more than thirty days prior to the filing of this information disclosure statement.
- ☐ It is believed no fee is required to make this a complete and timely filing. However, if a fee is required, please charge our Deposit Account No. 19-0733.
- ☒ The undersigned hereby authorizes the Office to charge the fee pursuant to 37 C.F.R. § 1.17 (p) to our Deposit Account 19-0733.

Consideration of this information is respectfully requested, with citation thereto on the face of the issued patent as applicable.

Respectfully submitted,  
**BANNER & WITCOFF, LTD.**

Dated: March 28, 2005

By:   
Ross A. Dannenberg  
Registration No. 49,024  
1001 G. Street, N.W.  
Washington, D.C. 20001-4597  
(202) 824-3153

RAD/mmd



PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/085,910
Filing Date	February 28, 2002
First Named Inventor	Tommi Auranen
Art Unit	2683
Examiner Name	Marcos L. Torres
Attorney Docket Number	004770.00039

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US- 2004/0242163 A1	12-02-2004	Karr et al.	
		US- 2004/0102213 A1	05-27-2004	Karr et al.	
		US- 2004/0102214 A1	05-27-2004	Karr et al.	
		US- 2004/0102215 A1	05-27-2004	Karr et al.	
		US- 2004/0097194 A1	05-20-2004	Karr et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

**NON PATENT LITERATURE DOCUMENTS**

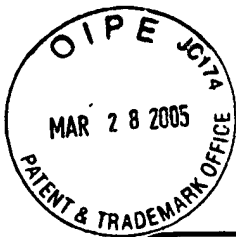
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		FALK, Aaron David, "A System design For A Hybrid Network Data Communications Terminal Using Asymmetric TCP/IP To Support Internet Applications," Master of Science Thesis, 1994, 78 pages	
		FT Interactive Data, printed from <a href="http://www.interactivedata.com/images/IDC_timeline.swf">http://www.interactivedata.com/images/IDC_timeline.swf</a> , on 3/28/05, 4 pages	
		ANKENY, Jason, "Safe At Any Speed", printed from <a href="http://wirelessreview.com/ar/wireless_safe_speed/">http://wirelessreview.com/ar/wireless_safe_speed/</a> , on 3 pages, Wireless, June 1, 2004	
		"Mobility and the Implications of Wireless Technologies," printed from <a href="http://www.wws.princeton.edu/cgi-bin/byteserv.prl/~ota/disk1/1995/9547/954705.PDF">http://www.wws.princeton.edu/cgi-bin/byteserv.prl/~ota/disk1/1995/9547/954705.PDF</a> , chapter 2, pages 47-64, September, 1995	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

**Complete if Known**

Application Number	10/085,910
Filing Date	February 28, 2002
First Named Inventor	Tommi Auranen
Art Unit	2683
Examiner Name	Marcos L. Torres
Attorney Docket Number	004770.00039

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Welcome to eSignal!, printed from <a href="http://www.esignal.com/default.asp">http://www.esignal.com/default.asp</a> , on March 22, 2005, 2 pages	
		Welcome to the QuoTrek Product Site!, printed from <a href="http://www.quotrek.com/">http://www.quotrek.com/</a> on March 22, 2005, 2 pages	
		VAIDYA, Nitin H., et al., "Scheduling data broadcast in asymmetric communication environments," Wireless Networks, Volume 5, Issue 3, May 1999, pages 171-182	
		"New Flexible Network-based RTK Service in Japan," printed from <a href="http://www.geomatics.ucalgary.ca/~lachapel/00GPSIP.pdf">http://www.geomatics.ucalgary.ca/~lachapel/00GPSIP.pdf</a> , 8 pages, Approximate Publication: after 1999	
		"Semiconductor Delivers Complete Solution for Microsoft's New Smart Personal Objects Technology Initiative," printed from <a href="http://www.national.com/news/item/0,1735,829,00.htm">http://www.national.com/news/item/0,1735,829,00.htm</a> on March 28, 2005, 30 pages	
		American Meteorological Society, "Unidata's Internet Data Distribution (IDD) System: Two Years of Data Delivery," printed from <a href="http://www.unidata.ucar.edu/projects/idd/iips97.mitch.html">http://www.unidata.ucar.edu/projects/idd/iips97.mitch.html</a> , 6 pages, 1997	
		Unidata - IDD Principles, "Principles Underlying Internet Data Distribution," printed from <a href="http://www.unidata.ucar.edu/projects/idd/plans/principles.html">http://www.unidata.ucar.edu/projects/idd/plans/principles.html</a> , 2 pages, June 29, 1994	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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